

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/014208

A. CLASSIFICATION OF SUBJECT MATTER

H01L21/8234 (2006.01), *H01L27/088* (2006.01), *H01L21/8238* (2006.01),
H01L27/092 (2006.01), *H01L27/08* (2006.01), *H01L21/76* (2006.01),
H01L29/78 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H01L21/8234 (2006.01), *H01L27/088* (2006.01), *H01L21/8238* (2006.01),
H01L27/092 (2006.01), *H01L27/08* (2006.01), *H01L21/76* (2006.01),
H01L29/78 (2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 06-268162 A (Sumitomo Metal Industries, Ltd.), 22 September, 1994 (22.09.94), Par. Nos. [0002] to [0004]; Fig. 4 (Family: none)	1, 3, 4 2, 5
Y	JP 05-082637 A (Sony Corp.), 02 April, 1993 (02.04.93), Par. Nos. [0002] to [0004] (Family: none)	2, 5

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "P" document published prior to the international filing date but later than the priority date claimed

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"&" document member of the same patent family

Date of the actual completion of the international search
18 October, 2005 (18.10.05)

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PCT/JP2005/014208

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2003-060025 A (Samsung Electronics Co., Ltd.), 28 February, 2003 (28.02.03), Par. Nos. [0010] to [0013]; Figs. 21 to 25 & US 6566207 B2 Column 2, line 58 to column 3, line 65; Figs. 3A to 3E & KR 387531 B	6-8 9-12
Y	JP 60-137024 A (Matsushita Electronics Corp.), 20 July, 1985 (20.07.85), Full text; all drawings (Family: none)	9-12
Y	JP 07-283302 A (Kawasaki Steel Corp.), 27 October, 1995 (27.10.95), Full text; all drawings (Family: none)	13-16
Y	JP 05-047919 A (Sony Corp.), 26 February, 1993 (26.02.93), Par. No. [0024]; Fig. 2C & US 5236861 A Column 4, lines 59 to 65; Fig. 3F	13-16
Y	JP 10-135448 A (Sharp Corp.), 22 May, 1998 (22.05.98), Full text; all drawings (Family: none)	17
Y	JP 06-029525 A (Fuji Electric Co., Ltd.), 04 February, 1994 (04.02.94), Par. No. [0010]; Fig. 3(c) (Family: none)	17
P, X	JP 2004-296754 A (Matsushita Electric Industrial Co., Ltd.), 21 October, 2004 (21.10.04), Full text; all drawings (Family: none)	1-12